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DATE MAILED: 11/03/2004

PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/672,014	09/25/2003	Kenichi Ishikawa	04329.2660-03000	7647
22852	7590 11/03/2004		EXAMINER	
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER			BUI, HUNG S	
LLP 1300 I STRE	ET. NW		ART UNIT	PAPER NUMBER
	ON, DC 20005		2841	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Anglingtion No.	A == 1! = == 4(=)	
Office Action Summan		Application No.	Applicant(s) ISHIKAWA ET AL.	
		10/672,014		
	Office Action Summary	Examiner	Art Unit	1 .
		Hung S. Bui	2841	Pr
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address	S
A SH THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. a period for reply specified above is less than thirty (30) days, a reply or period for reply is specified above, the maximum statutory period or to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from to, cause the application to become ABANDONE	nely filed /s will be considered timely. the mailing date of this commun (D) (35 U.S.C. § 133).	ication.
Status				
1)⊠	Responsive to communication(s) filed on 25 S	eptember 2003.		
2a)□		action is non-final.		
3)□	Since this application is in condition for allowa	nce except for formal matters, pro	secution as to the mer	rits is
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.	
Dispositi	ion of Claims			
4)⊠ 5)□ 6)⊠ 7)□	Claim(s) 21-28 is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 21-28 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.		
Applicati	ion Papers			
9)□	The specification is objected to by the Examine	er.		
10)	The drawing(s) filed on is/are: a) ☐ acc	epted or b) objected to by the I	Examiner.	
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).	
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	* * * * * * * * * * * * * * * * * * * *	•	
,	,			
12) <u></u> a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stag	e
2) 🔲 Notic 3) 🔯 Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 09/25/2003.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 21-28 are rejected under 35 U.S.C. 102(e) as being anticipated by Chen et al. [US 6,263,957].

Regarding claims 21 and 25-26, Chen et al. disclose an electronic apparatus (figures 1a, 1b and 3) comprising:

- a heat generating component (310);
- a heat receiving portion (330) thermally connected to the heat generating component (figure 3);
- a cooling unit (figure 3) including a plurality of fins (322) for radiating the heat of the heat generating component and a fan (340) for supplying cooling air to the fins; and
- a circulation path (320) circulating a cooling medium between the heat receiving portion and the cooling unit for transmitting the heat of the heat generating component which is transmitted to the heat receiving portion, to the cooling unit through the cooling medium, wherein the circulation path

includes first and second path portions being separated from each other throughout a distance between the heat receiving portion and the cooling unit (figure 3).

Regarding claims 22-23, Chen et al. further disclose the specific structure of the cooling unit (figure 1a) with a plurality of fins (196) mounted thereon, wherein the cooling unit includes a main body (180) which includes a path (160, figure 1b) for allowing the cooling medium to flow therethrough.

Regarding claims 24 and 28, Chen et al. further disclose the electronic apparatus including a pump (317) for circulating the cooling medium between the heat receiving portion and the cooling unit through the circulation path (figure 3).

Regarding claim 27, Chen et al. further disclose the fins extending in a flows direction of the cooling air, and the path for allowing the cooling medium to flow therethrough extends in a direction that intersects the flow direction of the cooling air (figure 3).

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung S. Bui whose telephone number is (571) 272-2102. The examiner can normally be reached on Monday-Friday 8:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on (571) 272-1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/672,014

Art Unit: 2841

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Patent Application Information Retrieval (PAIR) system.

10/28/04

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Status information for

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